

JACOBS LABORATORIES

U.S. Environmental Protection Agency
Page 3
Lab No. P81-05-177



SEMS DocID 2332255

ORIGINAL
(Red)

Region Sample #1

TAG No 3-1308

Sample: 633-096-02 Sample from Locations #9 and #9A Pigeon Pt DE

<u>Fraction</u>	<u>Analysis</u>	<u>Compounds</u>	<u>Concentration, µg/kg</u>
E	Base/Neutral	Di-n-butyl phthalate	1,200 ✓
F	Acids	None detected	<1,000 ✓
G	General Organics	Di-n-butyl phthalate	3,700 ✓
		Phenanthrene	250 → ?
		Bis (2-ethylhexyl) phthalate	640 ✓
		N-Nitrosodiphenylamine	76 →
H	Volatiles	Methylene chloride	3,100,000 → ??

Aquatic Toxicity TLM 96 1000-100 ppm

Nonpriority Pollutants

Fraction

Compound

G

4-hydroxy-4-methoxy-2-pentanone -?

H

2-Butanone (or Methyl Methyl Ketone)

3-Methylbutanone -??

2-Pentanone (or Methylpropyl Ketone) -?

Methyl ester of butanoic acid

Aquatic Toxicity TLM 96 1000-100 ppm.

Aquatic Toxicity TLM 96 1000-100 ppm. CAS# 107-97-9

ORIGINAL

HWDS SAMPLE PREPARATION RECORD (Red)

P 1 OF 3

Repreparation for VOA only

PROJECT 433 NEIC SAMPLE NO. 096 REGION SAMPLE NO. 1 TAG NO. 3208

SAMPLE DESCRIPTION composite dredge spoil from SL#9
and SL#9A

COLLECTION DATE 2/15/81 TIME 15:29 SUSPECT HAZARDS

RECEIVED DATE 2/15/81 PREPARATION DATE 4/20/81

PREPARATIONS REQUESTED

- | | |
|---------------------------|----------------------------|
| A TOTAL METALS | F ACID (PHENOLIC) ORGANICS |
| B ACID EXTRACTABLE METALS | G GENERAL ORGANIC EXTRACT |
| C TOTAL MERCURY | H VOLATILE ORGANICS |
| D STRONG ACID ANIONS | I OTHER (SPECIFY) |
| E BASE/NEUTRAL ORGANICS | |

SAMPLE DATA

SAMPLE CONDITION

NO./TYPE CONTAINER RECEIVED: 8 OZ. JAR, OTHER

ESTIMATED TOTAL AMOUNT RECEIVED: ML GRAMS

TOTAL SAMPLE/BOTTLE WEIGHT GRAMS

AQUEOUS PHASE, NO. 1, RELATIVE AMOUNT % OF TOTAL

DESCRIPTION

SOLID PHASE, NO. 2, RELATIVE AMOUNT % OF TOTAL

DESCRIPTION

NON-AQ. PHASE, NO. 3, RELATIVE AMOUNT % OF TOTAL

DESCRIPTION

SAMPLE TAG INFORMATION tag verified

PREPARED BY cmj/hd REAGENT BLANK # 635-114

HWDS SAMPLE PREPARATION RECORD

ORIGINAL
(Red)

P 2 OF 3

PROJECT 633 NEIC SAMPLE NO. 096 REGION SAMPLE NO. 1 TAG NO. 31308SAMPLE DESCRIPTION Composite dredge spoil from S#9
and S#9ACOLLECTION DATE 2/5/81 TIME 13:29 SUSPECT HAZARDSRECEIVED DATE 2/13/81 PREPARATION DATE 4/20/81

AQUEOUS PHASE, NO. 1

CODE(S)	PREPARATION	ALIQOUT TAKEN	FINAL AMOUNT
Z	PH,OXIDIZERS,SULFIDE,CYANIDE SPOT TEST		
Y	ALKALINITY(ACIDITY),CONDUCTIVITY		
X	SULFIDE,CYANIDE (QUANTITATIVE)		
A,C	TOTAL METALS,MERCURY		
D	STRONG ACID ANIONS		
E,F	BASE/NEUTRAL,ACIDIC ORGANICS		
H	VOLATILE ORGANICS		
I	OTHER		

SOLID PHASE, NO. 2

CODE(S)	PREPARATION	ALIQOUT TAKEN	FINAL AMOUNT
W	PH,OXIDIZERS,ALKALINITY(ACIDITY),COND.		
V	SULFIDE,CYANIDE SPOT TESTS		
U	SULFIDE,CYANIDE (QUANTITATIVE)		
T	% MOISTURE	(SEE PAGE 3)	
A	TOTAL METALS		
B	ACID EXTRACTABLE METALS		
C	TOTAL MERCURY		
D	STRONG ACID ANIONS		
E,F,G	BASE/NEUTRAL,ACIDIC ORGANICS, GENERAL ORGANIC EXTRACT		
H	OTHER <u>UBA</u>		

1.0 ml (1.0 g in 10 ml MEOK) \approx 44 ml H₂O
(in duplicate)

PROJECT 633 NEIC SAMPLE NO. 096 REGION SAMPLE NO. 1 TAG NO. 3-1308

SAMPLE DESCRIPTION Composite dredge spoil from SL#9
and SL#9

COLLECTION DATE 2/5/81 TIME 15:29 SUSPECT HAZARDS 16:05

RECEIVED DATE 2/13/81 PREPARATION DATE 4/20/81 ^{CMU}

NON-AQUEOUS LIQUID PHASE, NO. 3

CODE(S)	PREPARATION	ALIQOT TAKEN	FINAL AMOUNT
A	TOTAL METALS		
G	GENERAL ORGANIC EXTRACT		
H	VOLATILE ORGANICS		
I	OTHER		

PRELIMINARY RESULTS

PH OF AQUEOUS PHASE

T % MOISTURE GROSS WET WT. GROSS DRY WT.

CONTAINER TARE WT.

PREPARATION COMMENTS

PREPARATION PARAMETER RESULTS AND EXTRACTS

ORIGINAL
(Red)NEIC Sample No. 633-096Region Sample No. 1Sample Description Composite dredge spoil sample from locations #9 and #9A (Project: Pigeon Point Landfill)Collection Date 2/5/81Time 15:29/
16:05Reagent Blank 633-097 ¹¹⁴

PARAMETER	AQUEOUS, NO. 1	SOLID, NO. 2	NON-AQUEOUS, NO. 3
Percentage of sample (by volume)	<i>N/A</i>	<i>100%</i>	
% moisture	<i>N/A</i>	<i>24%</i>	<i>N/A</i>
pH		<i>6</i>	<i>N/A</i>
Alkalinity	mg/L as CaCO ₃	<i>N/A</i> ug/g as CaCO ₃	<i>N/A</i>
Acidity	mg/L as CaCO ₃	<i>N/A</i> ug/g as CaCO ₃	<i>N/A</i>
Conductivity	TDS ₁ = mg/L	TDS ₁ = <i>N/A</i> ug/g	<i>N/A</i>
	TDS ₂ = mg/L	TDS ₂ = <i>N/A</i> ug/g	<i>N/A</i>
Oxidants (spot test)		<i>N/D</i>	<i>N/A</i>
Oxidants (as Cl equivalents)	mg/L	<i>N/A</i> ug/g	<i>N/A</i>
Sulfide (spot test)		<i>N/D</i>	<i>N/A</i>
Sulfide	mg/L	<i>N/A</i> ug/g	<i>N/A</i>
Cyanide (spot test)		<i>N/D</i>	<i>N/A</i>
Cyanide	mg/L	<i>N/A</i> ug/g	<i>N/A</i>
Description	<i>✓</i>	<i>reddish brown soil</i>	

N/A - not applicable to this phase or sample

N/D - not detected

PREPARATION PARAMETER RESULTS AND EXTRACTS

ORIGINAL
(Red)NEIC Sample No. 633-096Region Sample No. 1Sample Description Composite dredge spoil sample from locations #9 and #9A (Project: Pigeon Point Landfill)Collection Date 2/5/81Time 15:29/
16:05Reagent Blank 633-097 ⁴⁰ 114

PARAMETER	ALIQUOT ^a	EXTRACT ^b	SHIPPED ^c
<u>Aqueous phase, No. 1</u>			
A - total metals			
C - total mercury			
D - strong acid anions			
E - base/neutral organics			
F - acidic (phenolic) organics			
H - volatile organics			
I - other			
<u>Solid phase, No. 2</u>			
A - total metals	0.102g	1.04g flux	11 fused pellet
B - acid extractable metals	1.1g	100 ml	100 ml 0.1N HCl
C - total mercury	0.1g	10 ml	10 ml (in duplicate)
D - strong acid anions	1.0g	100 ml	100 ml H ₂ O
E - base/neutral organics	20.7g	47 ml	47 ml CH ₂ Cl ₂
F - acidic (phenolic) organics	20.7g	55 ml	55 ml CH ₂ Cl ₂
G - general organic extract	20.7g	104 ml	104 ml CH ₂ Cl ₂
H - other <i>volatile organics</i>	1.2g 1.0g corrected 5-18-81 FD	440 ml	44 ml H ₂ O (in duplicate)
<u>Non-aqueous liquid phase, No. 3</u>			
A - total metals			
G - general organic extract			
H - volatile organics			
I - other			

a Amount of original sample taken for preparation.

b Volume of total prepared extract. Takes into account all dilutions.

c Volume or weight of prepared extract sent to designate

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region III - 6th & Walnut Sts.
Philadelphia, Pa. 19106

ORIGINAL
(Red)

SUBJECT: Hazardous Waste Site Investigations
Pigeon Point - Preliminary Assessment

DATE: SEP 18 1980

FROM: Joseph Armao
Acting Chief, C&HWTF (3EN33)

TO: Robert Allen
Chief, Hazardous Materials Branch (3AH30)

Please begin processing of the above referenced Preliminary Assessment through the system. It is requested that a paper search of state and county files be conducted for completion of relevant portions of the Preliminary Assessment and for provision of any additionally useful information.

Robert A. Boodey, Investigator with C&HWTF, interviewed a reliable and important former associate of Pigeon Point Landfill on September 4, 1980. The subject provided the following information and requested strict confidentiality:

1. During the construction of the Pigeon Point Landfill, a berm was built around the landfill area to prevent silt from entering the Delaware River. When the landfill was initially opened no cover material was available. The subject was instructed by County personnel to use the berm as a source of cover material.
2. The subject left his employment at the Pigeon Point Landfill approximately three months after it opened. By the time he left, the East, South and West portions of the berm had been removed and leachate was spilling into the Delaware River from the Southeast corner of the landfill.
3. Drums and chemical wastes which were previously dumped at Tybouts were taken to Pigeon Point. These wastes were generated by Allied Chemical, Stauffer Chemical, the Getty Refinery and others.
4. Fires caused by the dumping of chemical wastes at the Pigeon Point Landfill were commonplace during the subject's employment there.

Also please refer to pp. 22, 44-45 of attached newspaper article.

RECEIVED

SEP 19 1980

EPA - REGION III
HAZARDOUS MATERIALS BRANCH

F3-8010-02-03